

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

| | | | |
|-------|---|----|---|
| Sheet | 1 | of | 1 |
|-------|---|----|---|

Complete if Known

| | |
|------------------------|--------------------------|
| Application Number | 10/700,001 |
| Filing Date | 11/03/2003 |
| First Named Inventor | Ragaiy Zidan |
| Art Unit | Unknown 17.54 |
| Examiner Name | Unknown Lange |
| Attorney Docket Number | WSR-50 (SRS 02-027) |

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner
Signature**

Wayne A. Larsel

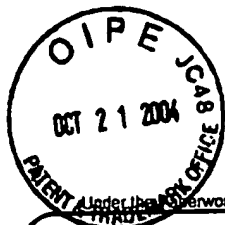
Date
Considered

9-15-05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

| | |
|------------------------|---------------------|
| Application Number | 10/700,001 |
| Filing Date | 11/3/2003 |
| First Named Inventor | Ragay Zidan |
| Art Unit | 1756-17.54 |
| Examiner Name | Unknown |
| Attorney Docket Number | WSR-50 (SRS 02-027) |

| U. S. PATENT DOCUMENTS | | | | | |
|------------------------|-----------------------|--|--------------------------------|--|---|
| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Number-Kind Code ² (if known) | | | |
| WAL | | US- 3,720,752 | 3/13/1973 | Van Houten | |
| WAL | | US- 4,360,569 | 11/23/1982 | Steyert et al | |
| WAL | | US- 4,948,423 | 8/14/1990 | Fetcenko et al | |
| WAL | | US- 5,500,309 | 3/19/1996 | Lichtenberg et al | |
| WAL | | US- 6,268,077 | 7/31/2001 | Kelley et al | |
| WAL | | US- 6,342,198 | 1/29/2002 | Zaluska et al | |
| WAL | | US- 6,596,055 | 7/22/2003 | Cooper et al | |
| WAL | | US- 6,680,042 | 1/20/2004 | Schulz et al | |
| WAL | | US- 2002/0166286 | 11/14/2002 | McClaine et al | |
| WAL | | US- 2003/0053948 | 3/20/2003 | Bogdanovic et al | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |

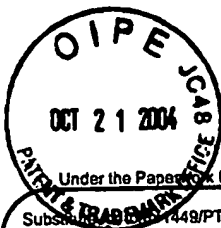
| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|-----------------------|---|------------------|---|---|----------------|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | Publication Date | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear | T ⁶ |
| | | Country Code ² *Number ⁴ *Kind Code ⁵ (if known) | MM-DD-YYYY | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| | | | |
|--------------------|-----------------|-----------------|---------|
| Examiner Signature | Wayne A. Tangel | Date Considered | 9-15-05 |
|--------------------|-----------------|-----------------|---------|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08B (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | | | Complete if Known | |
|---|--|--|--|------------------------|---------------------|
| | | | | Application Number | 10/700,001 |
| | | | | Filing Date | 11/03/2003 |
| | | | | First Named Inventor | Ragaiy Zidan |
| | | | | Art Unit | 4750 1754 |
| | | | | Examiner Name | Unknown Langel |
| | | | | Attorney Docket Number | WSR-50 (SRS 02-027) |

| | | | |
|-------|---|----|---|
| Sheet | 2 | of | 2 |
|-------|---|----|---|

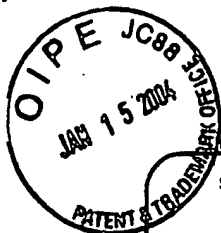
| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|-----------------------|--|----------------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| WAL | | Bogdanovic et al, "Metal-doped sodium aluminum hydrides as potential new hydrogen storage materials," J. Alloys & Compounds, 302 (2000) 36-58. | (no month) |
| WAL | | Jensen et al, "Advanced titanium doping of sodium aluminum hydrides: segue to a practical hydrogen storage material?" Intl. J. Hydrogen Energy 24 (1999) 461-465. | (no month) |
| | | Bogdanovic et al, "Investigation of hydrogen discharging and recharging processes of Ti doped NaAlH4 by X ray diffraction analysis (XRD) and solid state NMR spectroscopy," J. | (no date) |
| WAL | | Ruggeri, et al, "Influence of carbon on the electrode characteristics of MgNi prepared by mechanical alloying," J. Alloys & Compounds 343 (2002) 170-178. | (no month) |
| WAL | | Iwakura et al, "A new electrode material for nickel-metal hydride batteries: MgNi-graphite composites prepared by ball-milling," J. Alloys & Compounds 293-295 (1999) 653-657. | (no month) |
| WAL | | Bouaricha et al, "Activation characteristics of graphite modified hydrogen absorbing materials," J. Alloys & Compounds 325 (2001) 245-251. | (no month) |
| WAL | | Zalusa et al, "Sodium alanates for reversible hydrogen storage," J. Alloys & Compounds 298 (2000) 125-134. | (no month) |
| WAL | | Ritter et al, "Implementing a hydrogen economy," materialstoday, September, 2003, pp. 18-23. | |
| | | | |
| | | | |

| | | | |
|--------------------|-----------------|-----------------|---------|
| Examiner Signature | Wayne A. Langel | Date Considered | 9-15-05 |
|--------------------|-----------------|-----------------|---------|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

| | |
|------------------------|---------------------|
| Application Number | 10/700,001 |
| Filing Date | 11/03/2003 |
| First Named Inventor | Ragaiy Zidan |
| Art Unit | Unknown 1754 |
| Examiner Name | Unknown Langel |
| Attorney Docket Number | WSR-50 (SRS 02-027) |

U. S. PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|--------------------|-----------------------|--|--------------------------------|--|---|
| | | Number-Kind Code ² (if known) | | | |
| WAL | | US- 6,471,935 B2 | 10/29/2002 | Jensen | |
| WAL | | US- 6,305,442 B1 | 10/23/2001 | Ovshinsky et al | |
| WAL | | US- 6,277,519 B1 | 08/21/2001 | Ishii et al | |
| WAL | | US- 6,274,194 B1 | 08/14/2001 | Mori et al | |
| WAL | | US- 6,258,184 B1 | 07/10/2001 | Iba et al | |
| WAL | | US- 6,251,349 B1 | 06/26/2001 | Zaluska et al | |
| WAL | | US- 6,245,165 B1 | 06/12/2001 | Avridsson et al | |
| WAL | | US- 6,106,801 | 08/22/2000 | Bogdanovic et al | |
| WAL | | US- 6,074,453 | 06/13/2000 | Anderson et al | |
| WAL | | US- 5,460,745 | 10/24/1995 | Lee | |
| WAL | | US- 5,411,928 | 05/02/1995 | Heung et al | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |

FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear | T ⁴ |
|--------------------|-----------------------|---|--------------------------------|--|---|----------------|
| | | Country Code ³ Number ⁴ Kind Code ⁵ (if known) | | | | |
| WAL | | PCT/EP01/02363 (w/search report) | 09/20/2001 | Bogdanovic et al | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

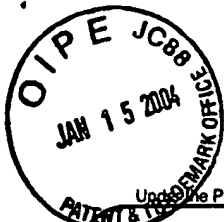
Examiner
Signature*W. A. Langel*Date
Considered

9-15-05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37-CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/088 (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| | | | | | |
|---|---|--------------------------|---------------|------------------------|---------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | Complete if Known | | | |
| | | Applicant Number | 10/700,001 | | |
| | | Filing Date | 11/03/2003 | | |
| | | First Named Inventor | Ragay Zidan | | |
| | | Art Unit | Unknown 1754 | | |
| | | Examiner Name | Unknown Lange | | |
| Sheet | 2 | of | 2 | Attorney Docket Number | WSR-50 (SRS 02-027) |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|-----------------------|---|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| WAL | | JENSEN, ZIDAN, MARIELS, HEE & HAGEN, "Advanced titanium doping of sodium aluminum hydride: segue to a practical hydrogen storage material?" Intl. J. Hydrogen Energy 24 (1999) 461-465 (40 month) | |
| WAL | | ZIDAN, TAKARA, HEE & JENSEN, "Hydrogen cycling behavior of zirconium and titanium-zirconium-doped sodium aluminum hydride", J. Alloys and Compounds 285 (1999) 119-122 (40 month) | |
| WAL | | BOGDANOVIC & SCHWICKARDI, "Ti-doped alkali metal aluminum hydrides as potential novel reversible hydrogen storage materials" J. Alloys and Compounds 253-254 (1997) 1-9 (40 month) | |
| WAL | | ASHBY & JAMES, "An Investigation of the Direct Synthesis of Group Ia Hexahydroaluminates" Inorganic Chemistry, Vol. 8, No. 11, Nov. 1969, pp2468-2472. | |
| WAL | | ZAKHARKIN, GAVRILENKO, ANTIPIN, & STRUCHKOV, "Preparation of Sodium Hexahydroaluminate Na ₃ AlH ₆ " Russian Journal of Inorganic Chemistry, Vol. 12, No. 5, May 1967 pp 607-610. | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| | | | |
|--------------------|----------------|-----------------|---------|
| Examiner Signature | Wayne A. Lange | Date Considered | 9-15-05 |
|--------------------|----------------|-----------------|---------|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.